

## Claims

- [c1] What is claimed is:
- 1.A character transcoding method for transforming characters encoded with a first character-encoding rule when input into a mobile phone, to characters encoded with a second character-encoding rule, the method comprising the following steps:
- (a)inputting a document into the mobile phone, wherein the document comprises at least one character;
- (b)checking a character-encoding rule of at least one character in the document; and
- (c)transforming all the characters of the document to characters encoded with the second character-encoding rule if the checked character in the document is encoded with the first character-encoding rule.
- [c2] 2.The method of claim 1 wherein the mobile phone comprises a checking module, in step (b) the character-encoding rule of at least one character in the document being checked by the checking module.
- [c3] 3.The method of claim 1 wherein the mobile phone comprises a character-encoding rule reference table, in step (c) the characters in the document being transformed to characters encoded with the second character-encoding rule according to the character-encoding rule reference table.
- [c4] 4.The method of claim 1 wherein the mobile phone comprises a character encoding transforming module, in step (c) all the characters in the document being transformed to characters encoded with the second character-encoding rule by the character encoding transforming module.
- [c5] 5.The method of claim 1 wherein the first character-encoding rule is a Big-5 encoding rule for Chinese characters.
- [c6] 6.The method of claim 1 wherein the first character-encoding rule is a GB encoding rule for Chinese characters.
- [c7] 7.The method of claim 1 wherein the first character-encoding rule is a HZ encoding rule for Chinese and ASCII characters.

- [c8] 8.The method of claim 1 wherein the second character-encoding rule is a Unicode encoding rule.
- [c9] 9.The method of claim 1 wherein the mobile phone comprises a display for displaying the transformed characters encoded with the second character-encoding rule.
- [c10] 10.The method of claim 9 wherein the display is a liquid crystal display.
- [c11] 11.The method of claim 1 wherein the document is an electronic mail.
- [c12] 12.The method of claim 1 wherein the document is a short message for a short message service (SMS).
- [c13] 13.The method of claim 1 wherein the mobile phone comprises a plurality of pushbuttons, in step (a) the document being inputted into the mobile phone through the pushbuttons.
- [c14] 14.The method of claim 1 further comprising the following step:  
in step (a), inputting the document through wireless communications.
- [c15] 15.The method of claim 1 further comprising the following step:  
after performing step (c), transmitting the document encoded with the second character-encoding rule to another mobile phone through wireless communications.
- [c16] 16.The method of claim 1 wherein the first character-encoding rule is a Unicode encoding rule.
- [c17] 17.The method of claim 1 wherein the second character-encoding rule is a Big-5 encoding rule for Chinese characters.
- [c18] 18.The method of claim 1 wherein the second character-encoding rule is a GB encoding rule for Chinese characters.
- [c19] 19.The method of claim 1 wherein the second character-encoding rule is a HZ encoding rule for Chinese and ASCII characters.